

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1. (previously presented) An electrical device comprising
 - (A) an element which
 - (1) has first and second surfaces and
 - (2) comprises a conductive polymer composition, and
 - (B) a first metal foil electrode which
 - (1) comprises
 - (a) a first surface having (i) a center line average roughness R_a μm as measured by using an interferometer, and (ii) a reflection density RD, the product R_a times RD being 0.5 to 1.6 μm , and
 - (b) a second surface, and
 - (2) is positioned so that the first surface of the electrode is in contact with the conductive polymer element.
2. (original) A device according to claim 1 wherein R_a is 0.5 to 2.7 μm and RD is at least 0.5.
3. (original) A device according to claim 1 wherein the conductive polymer composition comprises a polymeric component and dispersed therein a particulate conductive filler.
4. (original) A device according to claim 3 wherein the polymeric component of the composition comprises a polyolefin or a fluoropolymer.
5. (original) A device according to claim 1 wherein the conductive polymer composition exhibits PTC behavior.

6. (original) A device according to claim 1 wherein the first metal foil electrode comprises nickel or copper.
7. (original) A device according to claim 1, wherein the first surface of the first metal foil electrode comprises nickel.
8. (original) A device according to claim 1, further comprising a second metal foil electrode positioned so that the conductive polymer element is sandwiched between the first metal foil electrode and the second metal foil electrode.
9. (original) A device according to claim 1 wherein the device is a circuit protection device which has a resistance of at most 100 ohms.
10. (canceled)
11. (canceled)
12. (canceled)
13. (canceled)
14. (withdrawn) A process for making an electrical device, said process comprising
 - (A) providing an element comprising a conductive polymer composition,
 - (B) providing a first metal electrode having
 - (1) a first surface having a center line average roughness and a reflection density RD such that the product R_a times RD is at least $0.14\text{ }\mu\text{m}$, and
 - (2) a second surface,
 - (C) positioning at least one crosslinking agent between the conductive polymer and the first surface of the first metal electrode, and
 - (D) securing the first surface of the metal electrode to the conductive polymer element with the crosslinking agent therebetween.

15. (withdrawn) A process according to claim 14 wherein the crosslinking agent is activated concurrently with the securing process.
16. (withdrawn) A process according to claim 14 wherein the crosslinking agent is activated by thermal or radiation means.
17. (canceled)
18. (canceled)
19. (canceled)
20. (canceled)
21. (canceled)
22. (canceled)
23. (original) An electrical circuit which comprises
 - (1) a source of electrical power;
 - (2) a load; and
 - (3) a circuit protection device according to claim 1 electrically connecting the source and the load.